

42/18.

ious subjects on the 10th

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Dr: rejected.

Dr. R. Murphy

Prox to Cause of Pain

Proximate cause of Pain

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Among the various subjects embracing the
Medical Philosophy none are more so than
the proximate cause of pain; yet, unfortunately,
for the science of Medicine, it has been but
little attended to - the cause of which I need not
attempt to ascertain. I will only observe, it may,
in part, result from our known ignorance of the
Nature of the nervous power. It is, however,
by no means justifiable on this principle, in
as much as it affords no indication of similar
difficulties to the investigation of the mode
in which agents act in exciting the power
constituting pain.

For the Proximate Cause of pain, I
would assign, pressure upon some portion of the
Nervous System.

To be satisfied, this hypothesis is correct,
will only require some attention to the state
of a part in which pain exists, and the
Modus operandi of Measures, or Means, by
which it is removed.

In most cases, pressure will be obvious.
If, for instance, I compress my leg, with

my teeth, I find pain the immediate consequence 1824
and if, I do not press hard enough to produce disorg- 1824
ization and thereby call in the aid of the circulating 1824
fluids, I find when I remove the pressure they 1824
cease. In more than nine tenths of the pain 1824
which animated Nature suffers the immediate 1824
agents of pain are the circulating fluids, 1824
Now are we surprised, that 1824
should be the case when we reflect upon the 1824
immense number of agents capable of causing 1824
some inequality in their distribution. They produce 1824
pain often from congestion & frequently 1824
induce the same by collapse - instances of 1824
the former we have in Spoplexy, pneumonia, 1824
and all local inflammations &c. - of the latter, 1824
hemorrhages, Typhus &c.

The remedies for the first class all act
by diminishing pain - Venesection, by
abstracting a part of the stimulus of the
heart and large arteries, diminishes
the vis a tergo, and by lessening the volume
of fluid, in the large vessels opens the small
ones, which are always more than proportionally

distinctly to empty themselves. Carbonic, neutral
salts, Anhydromials, low dist., rest & C.C. produce
ultimately the same effects, which we have ascribed
to Venesection. Blister act by enabling the small
vessels to contract with more energy, thereby, to
regain their natural dimensions, and by actually
drawing off a part of the superabundant
fluids. When applied to a violent part, they
act by exciting a sympathetic or counter
action, and here I should suppose them very
little superior to rubefacient.

That blisters act in the mode I have ascribed
to them is probable, from their peculiar
good effects in Erysipelas, and other superficial
local inflammation, when relaxing measures,
as poultices, do harm.

Prepared from collapse as in typhus, where
from its being general and not very great
we find much anxiety restlessness &c.
requires not only stimuli but nutrition.
Here we should certainly use different agents.

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as different symptoms may indicate, if
Typhus delirium supervene, it should
be removed by opium which determines
more to the head than most other Stimulants.
I will take the liberty ^I mentioning that
it ^{is} probable Typhus delirium may occur
when there is in the system a sufficiency
of blood to prevent it, were it equally distributed
or it may be of a more alarming nature,
when there is not a quantum sufficient
tho it be equally distributed. Hence some
Judgment may be necessary in the choice
of Medicines or remedies.

It is from the agency of the
circulating fluids, (the weakest parts are the
first to suffer) and the viscera so often
seat of disease: in the acute state of
which we find copious depletion so
often indispensably necessary.

In further support of the idea I
will mention that we always

And pain in proportion to the degree of pressure (allowing it to be sufficient to cause pain, and not to transcend the grade which would destroy sensibility.)

In phlegmonous inflammation we observe pain to be more acute as pressure increases, and just before suppuration takes place, when the vessels are distended almost to their *in plus ultra* causing great pressure, more especially on the nerves of their coats, which have incipently their filings approximated in consequence of distention, we find the pain very great, which quickly subsides when from the resection of pus, now deposited under the skin in the cavities of the cellular membrane the vessels regain ^{their} proper dimensions. But should matter be formed under tendinous fascia which can not yield we find the pain very potent from the pressure still continuing. Here a surgical operation should remove the pressure — We also find pain in ligamentous & tendinous parts more severe

than that of Muscular portions of the
⁽⁶⁾
Digestion, when it does occur ~~than~~

There being insensible in a sound state,
also favouring the idea, because they
are insensible only from the difficulty
of applying pressure, the nerves supplying
them being so small as to be difficult
to compress; and very little to favour it,
for they possess very little contractility and
their vessels being so small as to be incapable
of any speedy congestion, yet they congest
does always take place before they become
inflamed or painful, which causes great
pressure from this influence being engorging
; for the same reason pain & inflammation
in these parts are hard and tedious
to remove - In cases of ruptured
tendons we are told that a burning
sensation is all that is perceived at
first - This arises from slight compression
of their very minute nerves

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Hence too we find the burning sensation

Very common in Dyspepsia and other
inflammations situated near the surface
of the body where the nerves are very minute.
The sensation peculiar to heat depends on
caloric readily producing this kind of
pressure - Hence too the sensation of cold
is for a moment very much like that of
heat - But carry these to a more
intense degree, from the agency of the
circulating fluids or they will both be
confounded with pain from other causes.

Pain in the teeth is, more severe (taking
into consideration the quantum of nerve
acted upon, as should be done) than
that from almost any other source,
because the nerve here being surrounded
by a hard bony wall which cannot
yield must suffer immense compression.
The passing of gall stones, urinary Calculi &c.

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give extreme purpose

I will not here multiply cases, which
might be done ad infinitum; nor a
very necessary, for should any be disposed
to adopt the idea, they can not be at any
loss to see how many are the agents and how diverse
their *Modus operandi* in causing & removing
purpose - I will only add, I can not perceive
any case of pain, either direct or sympathetic
mechanical or otherwise, which may not
be as plausibly accounted for on this
on any other principle, but should it, be
opposed to better light exhibit plainly
vulnerable to be defended, I will promptly
and with pleasure surrender it at discretion.

I am fully aware that I have observed
nothing like system - that I have taken too
much perhaps for granted - that I have
omitted many things almost inseparably

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